Resources

For more information:

Project-Based Learning

https://www.bie.org/about/what_pbl -- Buck Institute for Education; one-page summary of project-based learning with tabs to additional information

http://www.nea.org/tools/16963.htm -- National Educators Association; Links to Research-Based Resources

https://www.edutopia.org/project-based-learning-experts -- Edutopia: Project-Based Learning: What Experts Say

http://www.ascd.org/publications/educational_leadership/sept10/vol68/num01/Seven_Essentials_for_Project-Based_Learning.aspx -- Educational Leadership (ASCD); Includes an explanation of the essential components of a project-based learning experience

STEAM

https://www.ed.gov/stem -- While focused primarily on STEM education, this site highlights the importance of improving STEM education in our schools

https://www.edutopia.org/blog/pbl-and-steam-natural-fit-andrew-miller -- This article makes the connection between STEAM and Project-Based Learning

https://www.edutopia.org/article/STEAM-resources -- Links to resources that discuss how the arts and humanities are incorporated into STEM programming

21st Century Skills

https://www.brookings.edu/blog/education-plus-development/2017/10/17/how-do-we-teach-21st-century-skills-in-classrooms/ -- Research from the Brookings Institute

https://www.edutopia.org/discussion/15-characteristics-21st-century-teacher -- Emphasizes the shift in instructional strategies to teach 21st Century skills

http://www.nea.org/assets/docs/A-Guide-to-Four-Cs.pdf -- Comprehensive report on 21st Century learning